

# EROAD ETrack Wired Technical Data Sheet

The ETrack Wired asset tracker is a GPS device used to locate assets such as trailers and heavy equipment, rather than vehicles.



## Power and Battery

<b>Input Supply Voltage</b>	<ul style="list-style-type: none"><li>• 12/24 VDC Vehicle Systems</li><li>• 9-30 VDC (start-up, operating)</li><li>• 7-32 VDC (momentary)</li></ul>
<b>Input Supply Current</b>	<ul style="list-style-type: none"><li>• Typical 400uA @ 12V (deep sleep)</li><li>• Typical 15mA @ 12V (radio-active sleep)</li><li>• Typical 60mA @ 12V (active tracking w/GPS and cell on)</li></ul>
<b>Internal Battery</b>	<ul style="list-style-type: none"><li>• Rechargeable Li-ion, Up to 5200 mAh, 4-5 months duration</li></ul>

## Cellular Connectivity

<b>Bands</b>	<ul style="list-style-type: none"><li>• 4G LTE Bands B2, B4, B5, B12</li></ul>
<b>US Networks</b>	<ul style="list-style-type: none"><li>• AT&amp;T, T-Mobile, Cincinnati Bell, Immix, CommNet Wireless</li></ul>
<b>Canada Networks</b>	<ul style="list-style-type: none"><li>• Bell Mobility, Telus, Videotron, SaskTel</li></ul>
<b>Mexico Networks</b>	<ul style="list-style-type: none"><li>• Telcel, IUSACell</li></ul>

## GPS Connectivity

<b>Constellation</b>	<ul style="list-style-type: none"><li>• Hybrid GPS, GLONASS, SBAS Engine (WAAS, EGNOS, MSAS)</li></ul>
<b>Channels</b>	<ul style="list-style-type: none"><li>• 55</li></ul>
<b>Tracking sensitivity</b>	<ul style="list-style-type: none"><li>• -167 dBm</li></ul>
<b>Location Accuracy</b>	<ul style="list-style-type: none"><li>• -2.0m CEP Open Sky (SBAS 24 hours static)</li></ul>

## Regulatory Compliance

<b>Certifications</b>	<ul style="list-style-type: none"><li>• FCC, IC, PTCRB, RoHS</li></ul>
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## Warranty

<b>EROAD Warranty</b>	<ul style="list-style-type: none"><li>• 1 year warranty from initiation of EROAD contract</li></ul>
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## Hardware Details

<b>Case Size</b>	<ul style="list-style-type: none"><li>• 114 x 80 x 39mm (4.5 x 3.2 x 1.6")</li></ul>
<b>Weight</b>	<ul style="list-style-type: none"><li>• 230g, 340g with harness (8.11 oz, 12oz with harness)</li></ul>
<b>Case Material</b>	<ul style="list-style-type: none"><li>• PC/ABS</li></ul>
<b>LEDs</b>	<ul style="list-style-type: none"><li>• Cellular: Orange</li><li>• GPS: Green</li></ul>

## Sensors

<b>Ignition Inputs</b>	<ul style="list-style-type: none"><li>• 1 fixed bias</li></ul>
<b>Digital Inputs</b>	<ul style="list-style-type: none"><li>• 2 (high/ low bias selectable 0-30V DC)</li></ul>
<b>Analog Inputs</b>	<ul style="list-style-type: none"><li>• 1 external ADC input</li></ul>
<b>Accelerometer</b>	<ul style="list-style-type: none"><li>• Built-in, triple-axis</li></ul>
<b>Power, Inputs/Outputs</b>	<ul style="list-style-type: none"><li>• 12-wire captive harness</li></ul>

## Environmental Tolerances

<b>Operational Temperature</b>	<ul style="list-style-type: none"><li>• -30° to +60°C (-22° to +140°F) connected to primary power</li><li>• -20° to +60°C (-4° to +140°F) operating on internal battery</li><li>• -20° to +25°C (-4° to +77°F) storage &gt; 3 months</li></ul>
<b>Humidity</b>	<ul style="list-style-type: none"><li>• 95% RH @ 50°C (122°F) non-condensing</li></ul>
<b>Ingress Protection</b>	<ul style="list-style-type: none"><li>• IP66</li></ul>
<b>Shock &amp; Vibration</b>	<ul style="list-style-type: none"><li>• U.S. Military Standards 202G, SAEJ1455</li></ul>
<b>Electrostatic Discharge (ESD)</b>	<ul style="list-style-type: none"><li>• SAE J1113-13 (4 KV Limit)</li></ul>